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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Group Art Unit: 1754

Kazunori ANAZAWA et al.

Application No.: 09/863,291

Examiner: P. Lish

Filed: May 24, 2001

Docket No.: 109593

For: METHOD OF MANUFACTURING CARBON NANOTUBES AND/OR
FULLERENES, AND MANUFACTURING APPARATUS FOR THE SAME

AMENDMENT

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

APR 22 2003

Sir:

In reply to the October 25, 2002 Office Action, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Page 5, lines 13-23, delete current paragraph and insert therefor:

a¹

Therefore, in the conventional method, the production efficiency is low and the purities of the nanotubes and the fullerenes contained in the acquired soot are low, which is disadvantageous. Especially, in order to efficiently produce the nanotubes expected as a material to achieve an electronic switching element having a dimension within some nanometers, it is required to implement an industrial manufacturing method that allows production of high-purity nanotubes in large quantities, and a manufacturing apparatus for the same. Journet C., et al., "Large-scale production of single-walled carbon nanotubes by the electric-arc technique," *Nature*, Vol. 338, p756 (Aug. 21, 1997), discloses that carbon in